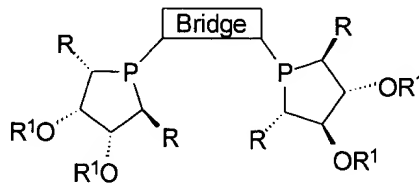
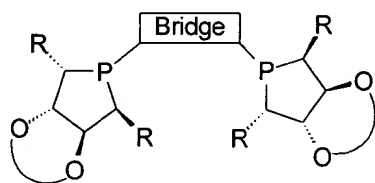


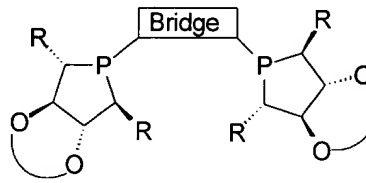
A



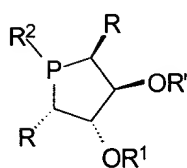
A'



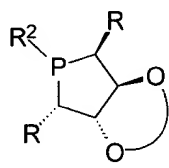
B



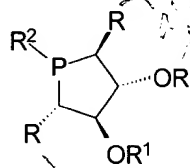
B'



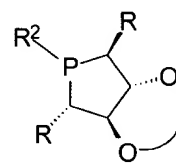
C



D



C'



D'

wherein:

- R and R² are independently aryl, alkyl, alkyl aryl, aryl alkyl, or chiral oxazolino which may be substituted with carboxylic acid, alkoxy, hydroxy, alkylthio, thiol or dialkylamino groups;
- R¹ can be H, alkyl, silane, aryl, a water soluble unit, or a linked polymer chain or inorganic support; and
- Bridge may be:

$-(CH_2)_n-$ where n is an integer ranging from 1 to 8;

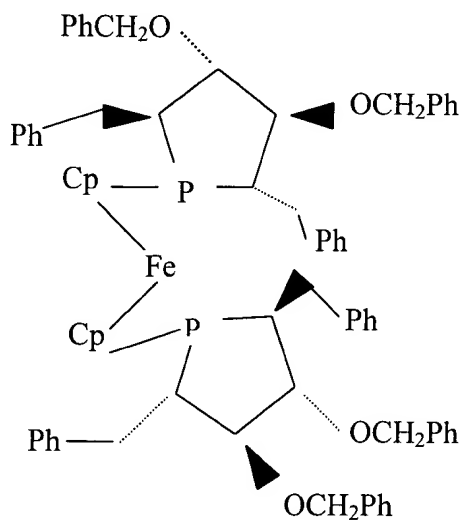
$-(CH_2)_nX(CH_2)_m-$ wherein n and m are each integers, the same or different, ranging from 1 to 8, and X is O, S, NR^4 , PR^4 , AsR^4 , SbR^4 , divalent aryl, divalent fused aryl, divalent 5-membered ring heterocyclic group, or divalent fused heterocyclic group, wherein R^4 is aryl, alkyl, substituted aryl, or substituted alkyl; or

1,2-divalent phenyl, 2,2'-divalent 1,1'-biphenyl or 2,2'-divalent 1,2'-binaphthyl or ferrocene, each of which may be substituted with aryl, C1-C8 alkyl, F, Cl, Br, I, $COOR^5$, SO_3R^5 , $PO_3R^5_2$, OR^5 , SR^5 , NR^5_2 , PR^5_2 , AsR^5_2 , or SbR^5_2 ;

wherein the substitution on 1,2-divalent phenyl, the ferrocene or biaryl bridge can be independently halogen, alkyl, alkoxyl, aryl, aryloxy, nitro, amino, vinyl, substituted vinyl, alkynyl, or sulfonic acids; and

R^5 is hydrogen, C1-C8 alkyl, C1-C8 fluoroalkyl, or C1-C8 perfluoroalkyl, aryl; substituted aryl; arylalkyl; ring-substituted arylalkyl; or $-CR^3_2(CR^3_2)_qX(CR^3_2)_pR^1$ wherein q and p are integers, the same or different, ranging from 1 to 8; R^3 is aryl, alkyl, substituted aryl, or substituted alkyl; and X is as defined above.

34. (Amended) A catalyst according to claim 23, wherein said chiral compound is represented by the following formula:



L8 (A')